

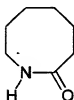
Endocyclic amides



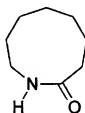
δ -Valerolactam



ϵ -Caprolactam



2-Azacyclooctanone

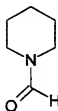


2-Azacyclononanone

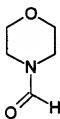
Exocyclic amides



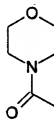
N-formyl pyrrolidine



N-formyl piperidine



N-formyl morpholine



N-acetyl morpholine

FIG. 1

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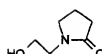
Pyrrolidones



2-pyrrolidone



N-methylpyrrolidone (NMP)



N-hydroxyethylpyrrolidone (HEP)

Formamides



N-methylformamide (MMF)



N,N-dimethylformamide (DMF)

Acetamides



N-methylacetamide (MMA)



N,N-dimethylacetamide (DMA)

Higher-chain primary amides



propionamide



isobutyramide

FIG. 2

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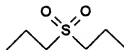
n-Alkyl sulfones



Methyl sulfone



Ethyl sulfone



n-Propyl sulfone

Cyclic sulfones



Tetramethylene sulfone
(Sulfolane)



2,4-Dimethylsulfolane



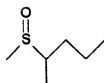
Butadiene sulfone
(Sulfolene)

FIG. 3

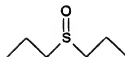
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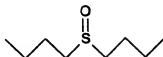
Methyl sulfoxide



Methyl *sec*-butyl sulfoxide



n-Propyl sulfoxide



n-Butyl sulfoxide



Tetramethylene sulfoxide

FIG. 4

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